

## MULTI-CARRIER TRANSMITTER

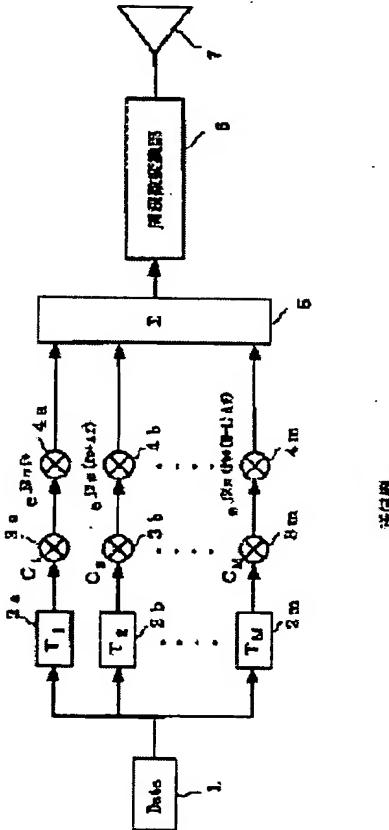
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## Abstract of JP2001168837

**PROBLEM TO BE SOLVED:** To provide a multi-carrier transmitter that requires no broad frequency band and does not cause a high peak in a signal waveform.

**SOLUTION:** Information data 1 are copied and supplied to plural branches. Data delay sections 2a-2m respectively delay the information data 1 by a prescribed time each, sign multiplier sections 3a-3m multiply one chip each of spread codes C1-CM respectively with the data. Furthermore, multi-carrier arithmetic sections 4a-4m obtain each subcarrier assigned to each concerned branch from among a plurality of carriers and having a prescribed frequency interval, and a data signal synthesis section 5 synthesizes the subcarriers to convert them into a transmission signal on a time base. Then a frequency conversion section 6 converts the frequency of the transmission signal into a transmission frequency and a transmission antenna 7 transmits the transmission signal with the converted frequency. Thus, the information data 1 are transmitted by a plurality of the subcarriers modulated by the one information data 1 allocated in a two-dimensional region which of time and frequency.



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